

GPNMB/Osteoactivin Protein, Human (HEK293, His)

Cat. No.:	HY-P70836
Synonyms:	Transmembrane Glycoprotein NMB; Transmembrane Glycoprotein HGFIN; GPNMB; HGFIN; NMB
Species:	Human
Source:	HEK293
Accession:	Q14956 (A22-P486)
Gene ID:	10457
Molecular Weight:	80-120 kDa

PROPERTIES

AA Sequence	<pre> A K R F H D V L G N E R P S A Y M R E H N Q L N G W S S D E N D W N E K L Y P V W K R G D M R W K N S W K G G R V Q A V L T S D S P A L V G S N I T F A V N L I F P R C Q K E D A N G N I V Y E K N C R N E A G L S A D P Y V Y N W T A W S E D S D G E N G T G Q S H H N V F P D G K P F P H H P G W R R W N F I Y V F H T L G Q Y F Q K L G R C S V R V S V N T A N V T L G P Q L M E V T V Y R R H G R A Y V P I A Q V K D V Y V V T D Q I P V F V T M F Q K N D R N S S D E T F L K D L P I M F D V L I H D P S H F L N Y S T I N Y K W S F G D N T G L F V S T N H T V N H T Y V L N G T F S L N L T V K A A A P G P C P P P P P P R P S K P T P S L A T T L K S Y D S N T P G P A G D N P L E L S R I P D E N C Q I N R Y G H F Q A T I T I V E G I L E V N I I Q M T D V L M P V P W P E S S L I D F V V T C Q G S I P T E V C T I I S D P T C E I T Q N T V C S P V D V D E M C L L T V R R T F N G S G T Y C V N L T L G D D T S L A L T S T L I S V P </pre>
Biological Activity	Measured in a cell proliferation assay using HUVEC cells. The ED ₅₀ this effect is 1.704 µg/mL, corresponding to a specific activity is 5.86×10 ³ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

GNMB, also referred to as Osteoactivin, is a protein that has been proposed to have a potential role as a melanogenic enzyme. Melanogenic enzymes are involved in the production of melanin, the pigment responsible for skin, hair, and eye color. While the exact mechanism of action of GNMB in melanin synthesis is not fully understood, studies have suggested its involvement in this process. Further research is needed to elucidate the specific functions and regulatory mechanisms of GNMB in melanogenesis and to determine its significance in melanin production.

Caution: Product has not been fully validated for medical applications. For research use only.

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